

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	481	546/211.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:32
L2	4	L1 and ullman	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:33
L3	2	L1 and ullmann	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:34
L4	91	L1 and copper	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:33
L5	556	sertindole	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:34
L6	0	L% and ulman	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:35
L7	8	L5 and ullmann	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:35

EAST Search History

L8	0	L5 and ullman	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:35
S1	4977	hicks.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:47
S2	9017	indoles.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:48
S3	4	S1 and S2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:49
S4	3836	Rhodia.as.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 09:49
S5	5	S1 and S4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 10:08
S6	212	sarges.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 10:08

EAST Search History

S7	5	S6 and indolone.ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 10:24
S8	7	"5298625"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/09/25 14:32

10509668.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:SSPTADK01625

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

***** Welcome to STN International *****

NEWS 1 JUL 01 Web Page for STN Seminar Schedule - N. America
NEWS 2 JUL 02 LMEDELIN coverage updated
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names
NEWS 4 JUL 02 CHEMCATS accession numbers revised
NEWS 5 JUL 02 CA/Caplus enhanced with utility model patents from China
NEWS 6 JUL 16 Caplus enhanced with French and German abstracts
NEWS 7 JUL 18 CA/Caplus patent coverage enhanced
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30 USGENE now available on STN
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06 BEILSTEIN updated with new compounds
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 13 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents
NEWS 14 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16 AUG 27 USPATOLD now available on STN
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19 SEP 13 FORIS renamed to SOFIS
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 21 SEP 17 CA/Caplus enhanced with printed CA page images from 1967-1998
NEWS 22 SEP 17 Caplus coverage extended to include traditional medicine patents
NEWS 23 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific

Page 1

10509668.trn

research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

***** STN Columbus *****

FILE 'HOME' ENTERED AT 09:10:56 ON 25 SEP 2007

=>Testing the current file.... screen

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Please change to a suitable file and repeat your upload

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file casreact

FILE 'CASREACT' ENTERED AT 09:11:18 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

* CASREACT now has more than 12 million reactions *

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieselich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1929

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10509668initial.str

Page 2

10509668.trn

10509668.trn

fragments assigned product role:
containing 10
reaction site bonds:
9-19:CC 18-20:CC
node mappings:
8:17 7:16 9:18



L2 STRUCTURE UPLOADED

=> que L2 AND L1

L3 QUE L2 AND L1

=> d l3

L3 HAS NO ANSWERS

L1 SCR 1929

L2 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.
L3 QUE ABB=ON PLO=ON L2 AND L1

=> s l1

SAMPLE SEARCH INITIATED 09:11:47 FILE 'CASREACT'

SAMPLE SCREEN SEARCH COMPLETED

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.08

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

BATCH **INCOMPLETE**

PROJECTED VERIFICATIONS: 10797493 TO 10838387

PROJECTED ANSWERS: 461462 TO 470978

L4 50 SEA SSS SAM L1 (1627 REACTIONS)

=> s l3

SAMPLE SEARCH INITIATED 09:12:00 FILE 'CASREACT'

SCREENING COMPLETE - 4769 REACTIONS TO VERIFY FROM

268 DOCUMENTS

100.0% DONE 4769 VERIFIED 46 HIT RXNS

SEARCH TIME: 00.00.01

8 DOCS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED VERIFICATIONS: 91251 TO 99509

PROJECTED ANSWERS: 8 TO 329

L5 8 SEA SSS SAM L2 AND L1 (46 REACTIONS)

=> d scan

Page 4

chain nodes :

27 28 30

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24

25

ring/chain nodes :

19

chain bonds :

9-19 18-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14

14-15 14-16 15-18 16-17 17-18 20-21 20-25 21-22 22-23 23-24 24-25

exact/norm bonds :

5-7 6-9 7-8 8-9 14-16 15-18 16-17 17-18 18-20

exact bonds :

9-19

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 20-21

20-25 21-22 22-23 23-24 24-25

G1-H,X

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS

20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 27:CLASS 28:CLASS 30:CLASS

31:Atom 32:Atom 33:Atom

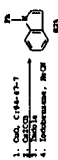
fragments assigned reactant role:

containing 1

Page 3

10509668.trn

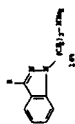
LA 6 ANTHERS CASREACT COPYRIGHT 1997 ACS INC. ETC
TI Relative activity for compounds in the procedure for separation of lipophilic compounds
at nitrophenyl-constituted lipophilic compounds
REACT (4) OF 43



NOTE: Solvent used

HOW MANY MORE ANTHERS DO YOU WANT TO SEARCH (1) 1

LA 6 ANTHERS CASREACT COPYRIGHT 1997 ACS INC. ETC
TI Relative activity for compounds in the procedure for separation of lipophilic compounds
at nitrophenyl-constituted lipophilic compounds
REACT (4) OF 43



HOW MANY MORE ANTHERS DO YOU WANT TO SEARCH (1) 1

10509668.trn

=> FILE STINGUIDE
FILE 'STINGUIDE' ENTERED AT 09:12:30 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 24, 2007 (20070924/UP).

=> file casreact
FILE 'CASREACT' ENTERED AT 09:13:21 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

+ CASREACT now has more than 12 million reactions
+

Some CASREACT records are derived from the ZIC/VINITI database (1974-1995) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Rieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 1976

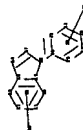
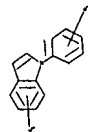
L6 SCREEN CREATED

=> Uploading C:\Program Files\Stnexp\Queries\10509668twohalogens.str

10509668.trn

10509668.trn

fragments assigned reactant role:
containing 1
fragments assigned product role:
containing 10
reaction site bonds:
9-19:CC 18-20:CC
node mappings:
8:17 7:16 9:18



L7 STRUCTURE UPLOADED

=> que L7 AND L6

L8 QUE L7 AND L6

=> s 18

SAMPLE SEARCH INITIATED 09:13:42 FILE 'CASREACT'
SCREENING COMPLETE - 2909 REACTIONS TO VERIFY FROM 174 DOCUMENTS

100.0% DONE 2909 VERIFIED 19 HIT RXNS 4 DOCS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED VERIFICATIONS: 54951 TO 61409
PROJECTED ANSWERS: 4 TO 199

L9 4 SEA SSS SAM L7 AND L6 (19 REACTIONS)

=> d scan

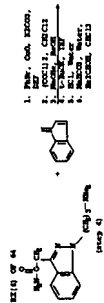
chain nodes :
27 28 30
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24
25
ring/chain nodes :
19
chain bonds :
9-19 18-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14
14-15 14-16 15-18 16-17 17-18 20-21 20-25 21-22 22-23 23-24 24-25
exact/norm bonds :
5-7 6-9 7-8 8-9 14-16 15-18 16-17 17-18 18-20
exact bonds :
9-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 20-21
20-25 21-22 22-23 23-24 24-25

G1:H,X

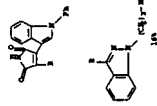
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 27:CLASS 28:CLASS 30:CLASS
31:Atom 32:Atom

10509668.trn

L4 4 ANTES CASCAT CONFIDENT 1007 ACS on ETS
 TI Synthesis and structure-activity relationships of 1,4-dihydro-2,6-dimethyl-4-oxo-1,4-dihydropyridine-3-carboxamide derivatives

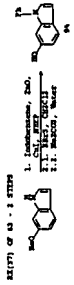


RE(4) OF 44



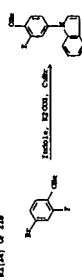
HOW MANY MORE ANTES DO YOU WISH TO SCANT (1)1

L4 4 ANTES CASCAT CONFIDENT 1007 ACS on ETS
 TI Synthesis and structure-activity relationships of 1,4-dihydro-2,6-dimethyl-4-oxo-1,4-dihydropyridine-3-carboxamide derivatives



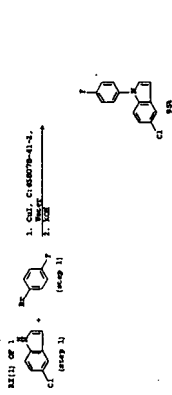
HOW MANY MORE ANTES DO YOU WISH TO SCANT (1)1

L4 4 ANTES CASCAT CONFIDENT 1007 ACS on ETS
 TI 1-Phenyl-1-(1H,2H-1-benzotriazin-2-yl)ethanone



HOW MANY MORE ANTES DO YOU WISH TO SCANT (1)1

L4 4 ANTES CASCAT CONFIDENT 1007 ACS on ETS
 TI Copper-catalyzed arylation of morpholine and its derivatives, e.g.,



ALL ANTES HAVE BEEN SCANNED

10509668.trn

=> 1
 1 IS NOT A RECOGNIZED COMMAND
 The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
 "HELP COMMANDS" at an arrow prompt (=>).

=> s 18 full
 FULL SEARCH INITIATED 09:14:54 FILE 'CASREACT'
 SCREENING COMPLETE - 43139 REACTIONS TO VERIFY FROM 3227 DOCUMENTS
 100.0% DONE 43139 VERIFIED 825 HIT RXNS 132 DOCS
 SEARCH TIME: 00.00.08

L10 132 SEA SSS FUL L7 AND L6 (825 REACTIONS)

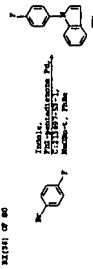
=> d scan

10509668.trn

110 131 ANTENSE CARBACT COPYRIGHT 1007 ACS ON STM

TI Ligands for metal and improved metal-catalyzed reactions based thereon

RE(4) OF 40



HOW MANY MORE ANTENSE DO YOU WISH TO SCAMP (111)

110 131 ANTENSE CARBACT COPYRIGHT 1007 ACS ON STM

TI E2B ligands, Part 5: Synthesis and structure-activity relationships of a series of 4'-substituted-2,2',6,6'-tetramethyl-3,3'-bipyridine derivatives

RE(2) OF 118



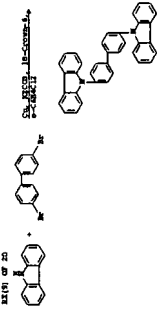
NOTE: E2B ligands, Part 5: Synthesis and structure-activity relationships of a series of 4'-substituted-2,2',6,6'-tetramethyl-3,3'-bipyridine derivatives

HOW MANY MORE ANTENSE DO YOU WISH TO SCAMP (111)

110 131 ANTENSE CARBACT COPYRIGHT 1007 ACS ON STM

TI Optical limiting in the visible range: molecular engineering around

RE(9) OF 20



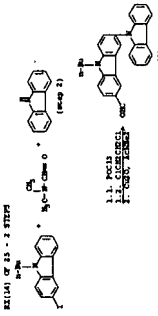
NOTE: Chemical, E2B ligands, Part 5: Synthesis and structure-activity relationships of a series of 4'-substituted-2,2',6,6'-tetramethyl-3,3'-bipyridine derivatives

HOW MANY MORE ANTENSE DO YOU WISH TO SCAMP (111)

110 131 ANTENSE CARBACT COPYRIGHT 1007 ACS ON STM

TI Synthesis and characterization of carbazole-based compounds with

RE(14) OF 25 - 2 STEPS



NOTE: 2) regiosubstituted, 3) chemical

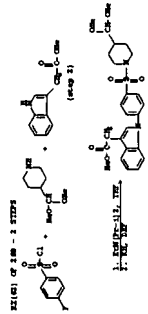
HOW MANY MORE ANTENSE DO YOU WISH TO SCAMP (111)

10509668.trn

110 132 ANTENSE CARBACT COPYRIGHT 1007 ACS ON STM

TI Novel substituted-2,2',6,6'-tetramethyl-3,3'-bipyridine ligands and selective

RE(6) OF 24 - 2 STEPS

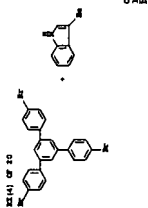


HOW MANY MORE ANTENSE DO YOU WISH TO SCAMP (111)

110 132 ANTENSE CARBACT COPYRIGHT 1007 ACS ON STM

TI 7-alkoxy-2,2',6,6'-tetramethyl-3,3'-bipyridine ligands and selective

RE(4) OF 20



RE(4) OF 20

HOW MANY MORE ANTENSE DO YOU WISH TO SCAMP (111)

10509668.trn

=> FILE STINGUIDE
FILE 'STINGUIDE' ENTERED AT 09:15:49 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 24, 2007 (20070924/UP).

=> d scan
'DISPLAY SCAN' IS NOT VALID IN CURRENT FILE

The DISPLAY SCAN command is not valid in the current file.
Enter HELP FORMATS and HELP DFIELDS to see valid DISPLAY
options in current file.

=> file casreact
FILE 'CASREACT' ENTERED AT 09:16:53 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

+ CASREACT now has more than 12 million reactions
+

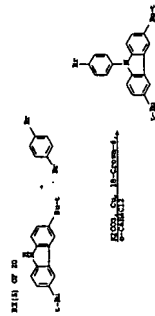
Some CASREACT records are derived from the ZIC/VINITI database (1974-1999)
provided by InfoChem, INPI data prior to 1986, and Biotransformations
database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance
identification.

=> d scan

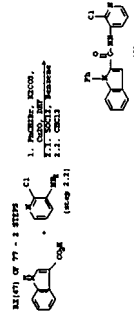
10509668.trn

L10 133 AMERRES CASREACT COPYRIGHT 1907 ACS on STM
TI *Chemical Abstracts Express as a Single-Desktop Component for File
Electronic Database*



NEW DATA BASE AMERRES 40 700 725 TO 84SEP (1)133

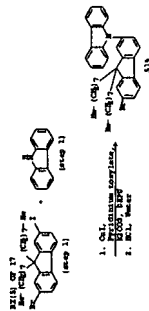
L10 133 AMERRES CASREACT COPYRIGHT 1907 ACS on STM
TI *Chemical Abstracts Express as a Single-Desktop Component for File
Electronic Database*



10509668.trn

110 133 AMERES CASREACT CONFIDENT 1007 ACS on STM

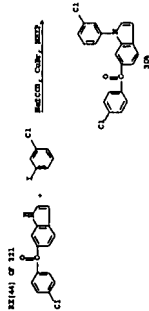
TI Preparation of Tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate and its derivatives



1. O₂
2. H₂O
3. H₂O

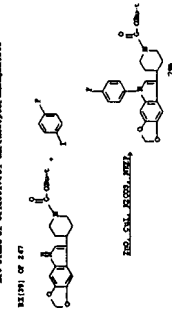
110 133 AMERES CASREACT CONFIDENT 1007 ACS on STM

TI Preparation of Tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate and its derivatives



110 133 AMERES CASREACT CONFIDENT 1007 ACS on STM

TI Preparation of Tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate and its derivatives

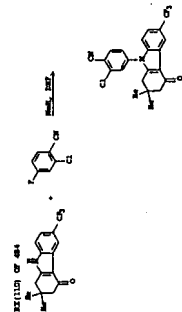


NOTE: The structure is a tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate derivative with a phenyl group.

10509668.trn

110 133 AMERES CASREACT CONFIDENT 1007 ACS on STM

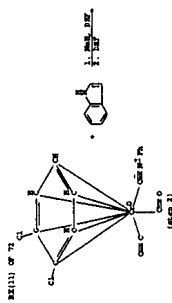
TI Preparation of Tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate and its derivatives



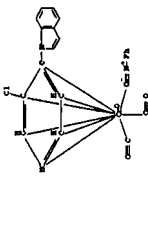
NOTE: The structure is a tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate derivative with a phenyl group.

110 133 AMERES CASREACT CONFIDENT 1007 ACS on STM

TI Preparation of Tetrahydrofuran-2-ylidene-1,3-dithiane-4-carboxylate and its derivatives

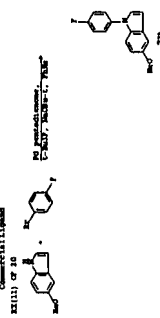


RE(11) OF 13

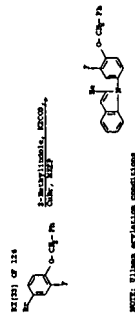


1050968.trn

110 131 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: Room-Temperature Catalytic Cationic Polymerization of Aryl Bromides and
 Commercial Ligands

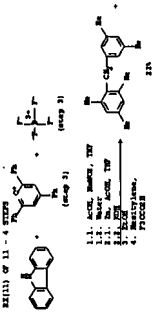


110 132 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: 2,2,2-Trifluoroethyl 2-Bromoisobutyrate and 2,2,2-Trifluoroethyl 2-Bromoisobutyrate as Initiators for the Synthesis of 2-Substituted-2-Methyl-1,3-Dioxane Derivatives



NOTE: Wilson arylation conditions

110 133 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: Carbonyl-Induced Cationic Polymerization and Reaction

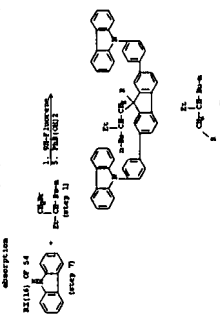


RE(13) OF 11 - 4 STEPS



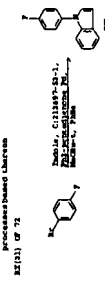
NOTE: 4) TETRAOL

110 134 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: Preparation of 2,7-Diaryldibenzofuran Derivatives with Multistep

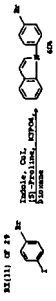


NOTE: 1,4,5,6-Tetra-substituted dibenzofuran, 1,4,5,6-tetra-substituted dibenzofuran, 1,4,5,6-tetra-substituted dibenzofuran

110 135 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: Preparation of 2,7-Diaryldibenzofuran Derivatives for Metal and Improved Metal-Catalyzed

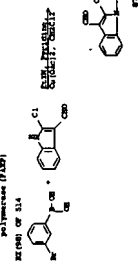


110 136 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: Cylindrical-Catalytic Arylation of Nitrogen Heterocycles



NOTE: An arylation reaction

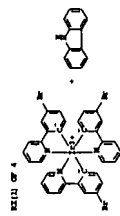
110 137 AMERES CEREACT COPYRIGT 1007 ACS on STM
 TI: Preparation of Substituted Indoles as Initiators of Poly(2,5-Diene)



NOTE: Chiral-indole, 4,4'-substituted indole

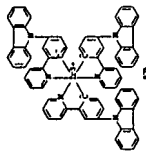
10509668.tn

110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Preparation of symmetric and asymmetric functionalized metal-organic
cages for the adsorption of organic vapors

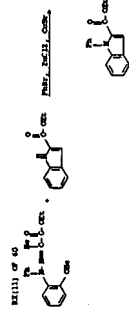


NOTE: 0.8

RE(1) OF 4



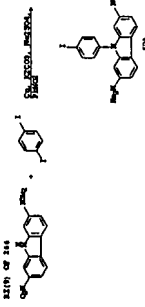
110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Further functionalization of the related compounds. XIV. Further
functionalization of the related compounds. XIV. Further



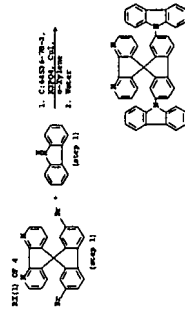
NOTE: 0.8

10509668.tn

110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI The novel surface-adsorbed functionalized metal-organic
cages for the adsorption of organic vapors

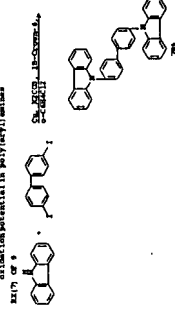


110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Novel asymmetric functionalized metal-organic cages for the
adsorption of organic vapors

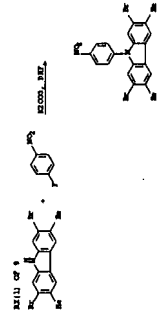


NOTE: 0.8

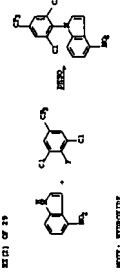
110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Towards an understanding of the structure-property relationship
in the adsorption of organic vapors



110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Preparation and properties of functionalized metal-organic
cages for the adsorption of organic vapors

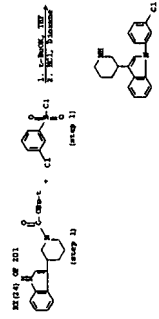


110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Preparation and properties of functionalized metal-organic
cages for the adsorption of organic vapors



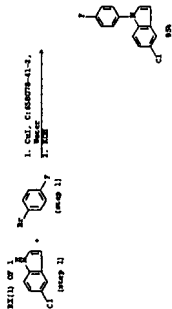
NOTE: 0.8

110 131 AMTES CARSACT COPYRIGT 1007 ACS on STM
TI Conformational isomerism of functionalized metal-organic
cages for the adsorption of organic vapors



10509668.tin

110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI Copper-catalyzed arylation of nucleobases and its applications. s.d.

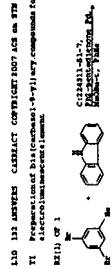


110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI Replacement of the quaternary system in 2-phenyl-4-quinolylacetonitrile with a phenyl substituent



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI Synthesis and photophysical properties of (60) fullerene adducts carrying oligoethers/dendrons

RE(4) OF 11 - REACTOR DIAGRAM NOT AVAILABLE



NOTE: alternative design shown

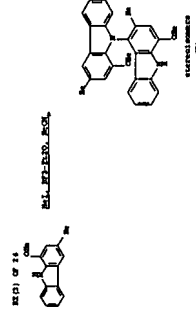
110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI 1-Phenyl-4-(1,3,5-trimethylphenyl)pyridine-2-amine



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI Ligands for metal- and improved metal-catalyzed processes based thereon



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI Selective arylation of nucleobases and its applications. s.d.



110 131 AMTENS CARSACT COPYRIGT 1007 ACS on STM
TI A versatile and efficient ligand for copper-catalyzed arylation of C-M, C-C and C-C bonds: pyridine-2-phenyl-4-phenyl-amine



10509668.trn

110 132 ANSWERS CONTACT COPYRIGHT 2007 ACS on STM

III A Versatile Linkage Strategy for Solid-Phase Synthesis of N,N-Dimethyltryptamine and β -Carbolines

EX-111 OF 102

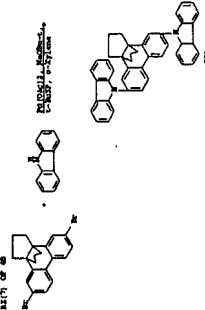


TUOCHAS PUNJABH-S-OTLOS : TUC

110 192 ANSWERS CASREACT COPYRIGHT 2007 ACS on STM

TTI Preparation of p-terphenylene derivatives for use in organic light-emitting diodes

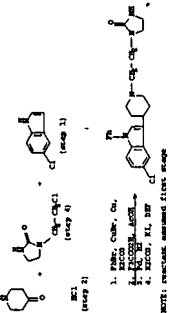
67 25 4211



L10 118 AMSTERDAM CASINITY COPYRIGHT 2007 AGE ON STM

TTT Characterization of KIRG potassium channels inhibition using COMSOL 3D Q3A3 and homology modeling approaches

Page 45 of 45

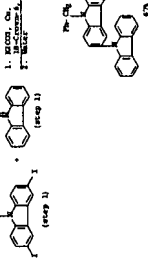


DATE: 11/11/2011

110 192 ANSWERS CASEEACT COPYRIGHT 2007 ACS CSC STM

11. An efficient D-A dyed for solvent polarity sensor
 BY(2) OF 15

100

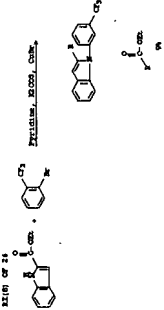


NOTES: 1. The above information is for informational purposes only and is not intended to be used for any other purpose.

L10 132 ANSWERS CLASSACT COPYRIGHT 2007 ACE OR STM

II Fischer isodolisation of ethyl pyruvate 2-[2-(trifluoromethyl)phenyl] phenyl hydrazone and new insight into the mechanism of the Colberg reaction. Fischer isodolisation and its related compounds. XVI.

Fischer
STATION OF THE

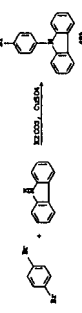


WOLF: 10 H, 150. deg.

110 132 AMSTERS CASETEXT COPYRIGHT 2007 ACS and STM

TI Synthesis and optical properties of starburst carbonolates based on 9-phenylcarbonolates

EX(2) OF 177

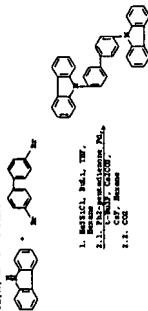


1050968.tin

110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI Palladium catalyzed aryl-alkene reactions in supercritical carbon dioxide

RE(1) OF 71 - 1 STEPS

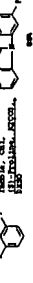


NOTE: 1) supercritical, green, non-toxic solvent, other reagents as above present; 2) 1,1,1-trichloroethane; 3) 1,2-dichloroethane; 4) 1,2-dichloroethane

110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI 1,4-bis(phenyl)pyridine-type coupling reactions of aryl halides with

RE(1) OF 1



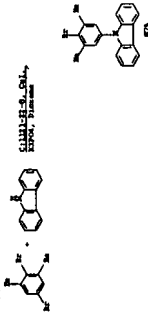
NOTE: 1) 1,4-bis(phenyl)pyridine; 2) 1,4-bis(phenyl)pyridine

1050968.tin

110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI Electrocatalyzed phenolations of donor-substituted aromatic

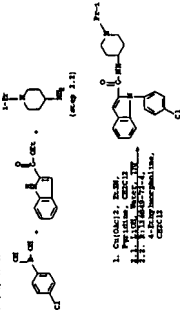
RE(1) OF 8



110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI Phenol-alkene reactions based on a 2-(4-chlorophenyl)ethanol

RE(1) OF 114 - 1 STEPS

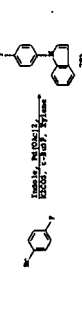


NOTE: 1) 2-(4-chlorophenyl)ethanol; 2) 2-(4-chlorophenyl)ethanol

110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI Palladium/(1,10)-bis(phenyl)pyridine and applications

RE(1) OF 7



110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI An inexpensive and efficient copper catalyst for Suzuki-Miyaura

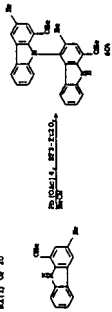
RE(1) OF 13



110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI Novel Concepts in Directed Biaryl Synthesis: 1) Directed Biaryl

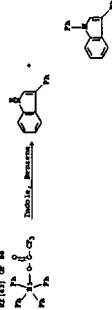
RE(1) OF 10



110 133 AMERIS CASREACT CONFIDENT 1007 ACS on STM

TI Phenol-alkene reactions based on a 2-(4-chlorophenyl)ethanol

RE(1) OF 114

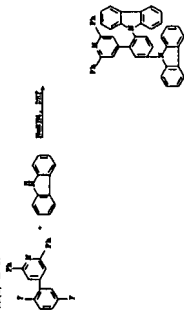


1050968.trn

110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

TI Preparation of bisbenzimidazole derivatives as charge-transport intermediates, and organic electroluminescent materials

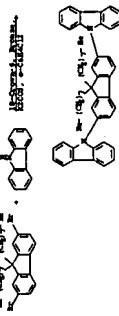
RE(13) OF 34



110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

TI Large three-photon absorption cross-sections in a novel class of 1,1'-bis(phenyl)-2,2'-bis(phenyl)benzimidazole derivatives

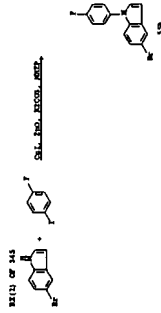
RE(13) OF 34



110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

TI Synthesis and Structure-Activity Relationship Investigation of 2-Substituted-3-(4-Pyridyl)-1,2,4-Benzoxadiazole Derivatives as Novel Anticancer Agents

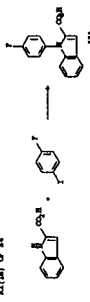
RE(13) OF 34



110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

TI Selective, centrally acting serotonergic 1, 2- and 3-substituted-3-(4-pyridyl)-1,2,4-Benzoxadiazole Derivatives

RE(13) OF 34

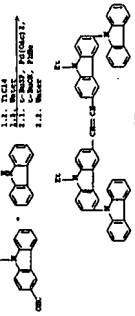


1050968.trn

110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

TI Synthesis of substituted benzimidazole derivatives as novel materials for organic electroluminescent devices

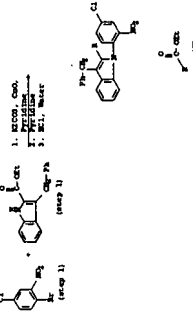
RE(13) OF 34 - 3 STEPS



110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

TI Synthesis of substituted benzimidazole derivatives as novel materials for organic electroluminescent devices

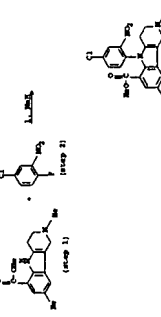
RE(13) OF 34



110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

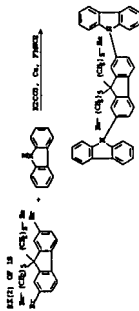
TI First-Synthesis of a novel benzimidazole derivative as a typical anti-cancer agent

RE(13) OF 34



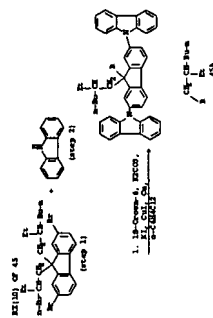
10509668.trn

110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM
T1 Synthesis and characterization of B-carbonyl-substituted ligands



NOTE: products depend on substitution of metal

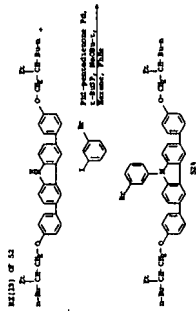
110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM
T1 Preparation of asymmetric fluorine derivatives with multiple absorption



NOTE: Fluorine condensation

110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

T1 Preparation of neutral ruthenium metal complexes and their use as light-emitting devices



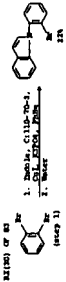
110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

T1 Efficient Palladium-Catalyzed Arylation of Indoles



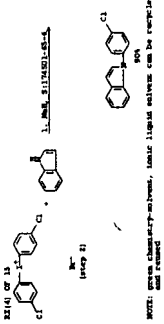
10509668.trn

110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM
T1 Palladium-Catalyzed Arylation of Aryl Boronates with Various Alkenes



110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

T1 Trans liquid-crystalline-arylation of benzodiazole with diarylethers



NOTE: Some alkenyl-substituted, trans liquid crystals can be recycled and reused

110 131 ARTVERS CASREACT COPYRIGHT 1997 ACS on STM

T1 Aryl phosphine and amine ligands for improved iridium metal-catalyzed processes



10509668.tin

110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

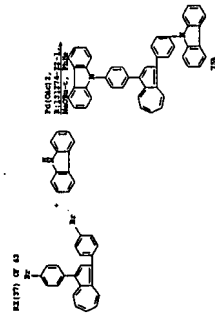
TI Synthesis and biological activities of novel arylidene-3-carboxylate
compounds as PPAR partial agonists



NOTE: Key word, 4a, molecular structure

110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

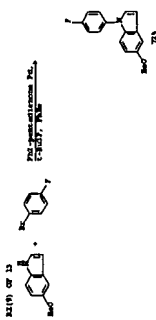
TI Synthesis of 2,2',6',6'-tetrakis(4-phenylphenyl)-2,2'-biphenyl-6,6'-dicarboxylic acid and its derivatives



10509668.tin

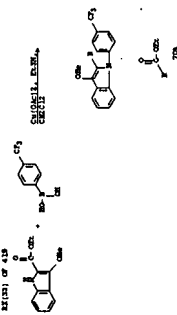
110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

TI Transition metal-complexes for propargylamine



110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

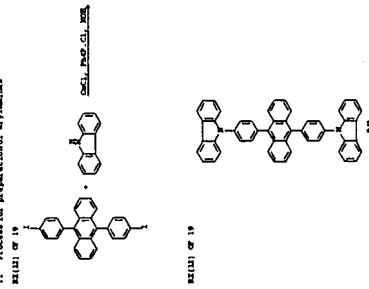
TI Synthesis and biological activities of novel arylidene-3-carboxylate
compounds as PPAR partial agonists



NOTE: Key word, 4a, molecular structure

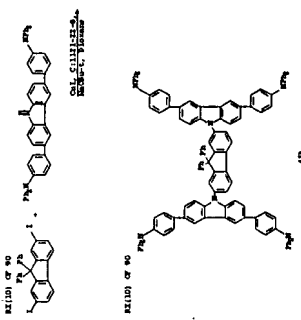
110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

TI Process for preparation of arylamine



110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

TI Synthesis and Functional Properties of Rad-Ionized
Oligo(9,9-bisphenyl)fluorene



110 133 ARTICLES CARSACT COPYRIGT 1007 ACS on STM

TI S10 and factor 10a crystal structure of a dual inhibitor of Rac1 and Rho



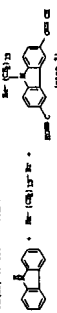
NOTE: 10a, molecular structure

L10 133 ANSWERS CASEFACT COPYRIGHT 2007 ACS on SIM

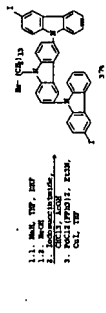
L10 L33 ANSWERS CONTACT COPYRIGHT 2007 ACS on SIM

EX-10) OF 100 - 3 STOPS

EX(10) OF 120 - 3 STEPS



- 1.1. NaH, THF, 120°C
- 1.2. Me-OH
2. Isolated in 100% yield
CHCl₃, 100°C
3. POCl₃(PPH₃)₂, Et₃N



NOTES: 1) no solvent, solid state, thermal, 2) regioselective

110 132 ANSWERS CASERACT COPYRIGHT 2007 AGE ON STM

TI High Triplet Energy Polymer as Host for Electrophosphorescence with High Efficiency

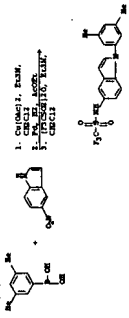
EX-115 OF 172 - 2



L10 132 ANSWERS CASEBACRY COPYRIGHT 2007 ACS on STM

T1 Design and synthesis of subtype-selective cyclooxygenase (COX) inhibitors derived from thalidomide

PAGE 02 OF 93 - 3 STEPS



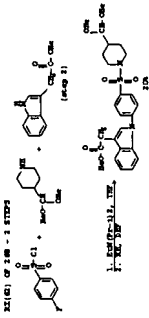
NOTE: 1) molecular sieves used

10509668.trn

L10 192 ANSWERS CASETEXT COPYRIGHT 2007 ACS on STM

TI More substituted α -unsaturated ketones potent and selective human

FD-302a (Rev. 1-25-60)



L10 L32 ANSWERS CASREACT COPYRIGHT 2007 ACS on STM

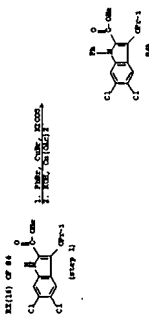
YI Synthesis of novel star-shaped carbazole-functionalized siloxanes

Downloaded from <http://ajphaphysocpharm.sagepub.com/> at 10:46 10 November 2014

L10 132 UNCLASSIFIED CASREACT COPYRIGHT 2007 ACS and STM

VI Synthesis of novel 1-phenyl-1*H*-indole-2-carboxylic acids. I. Utilization of Willmann and Dieckmann reactions for the preparation of 3-hydroxy, 3-alkoxy, and 3-alkyl derivatives

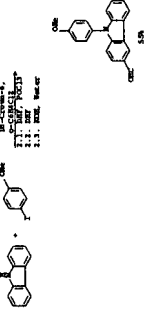
EX-16 OF 86 0



110 132 ANSWERS CASETEXT COPYRIGHT 2007 ACS am STM

II Synthesis and properties of glass-forming hydrates with 9-(4-methoxyphenyl) carbonyl groups

FILE NO 99-100 (c) 70



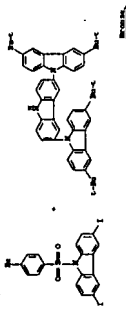
NOTE: 1) Vilnius conditions, 2) Vilmer reaction

10509668.trn

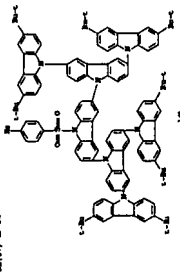
110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

RE(7) OF 24



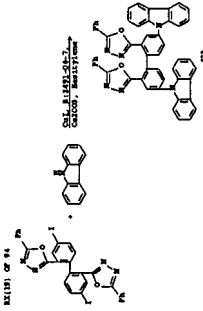
RE(7) OF 24



110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 The Novel Electrocatalytic Photocatalytic Polymer of 2,2'-Bis(4-aminophenyl)-4-methylphenol

RE(7) OF 24

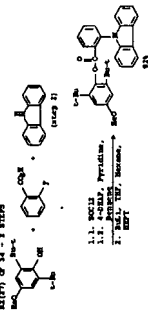


NOTE: 1) See also reaction

110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

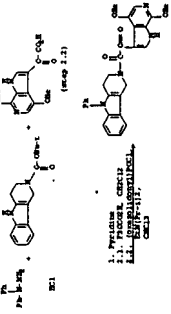
RE(7) OF 24



110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

RE(7) OF 24



NOTE: 1) See also reaction

10509668.trn

110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

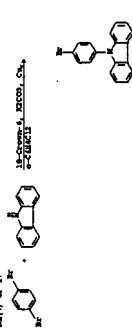
RE(7) OF 24



110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

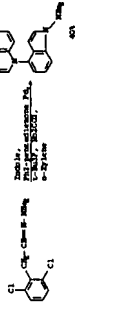
RE(7) OF 24



110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

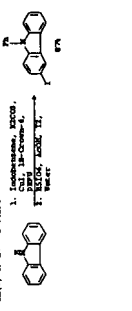
RE(7) OF 24



110 113 ANTWERP CASREACT COPYRIGHT 1007 ACS on STM

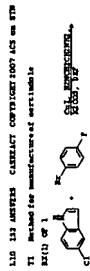
T1 Synthesis of 2,6-bis(4-aminophenyl)-4-methylphenol

RE(7) OF 24



10509668.tin

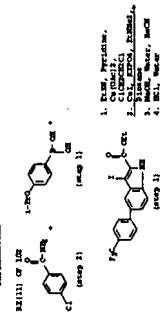
110 110 ARTISTS CARSACT COPYRIGT 1007 ACS on 17N
T1 Process for preparation of linear-unsaturated diene derivatives
RE(1) OF 1 - REACTION DIAGRAM NOT AVAILABLE



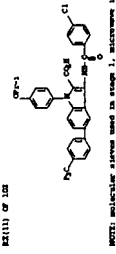
NOTE: OPTIMIZATION STUDY

10509668.tin

110 110 ARTISTS CARSACT COPYRIGT 1007 ACS on 17N
T1 Preparation of substituted benzene derivatives (substituted with a chlorine atom) in the presence of a catalyst

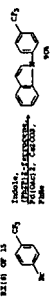


RE(1) OF 10

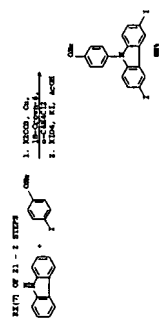


NOTE: Molecular sieve used in step 1, microwave irradiation in step

110 110 ARTISTS CARSACT COPYRIGT 1007 ACS on 17N
T1 Palladium-Catalyzed C-C Bond Formation in Aryl-alkene Systems and
the Subsequent Elimination of Palladium
RE(1) OF 13

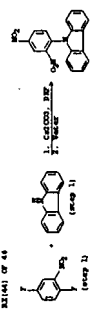


110 110 ARTISTS CARSACT COPYRIGT 1007 ACS on 17N
T1 Preparation and properties of linear-unsaturated aromatic diene with
reactive functional groups

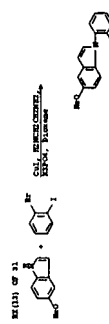


NOTE: 1) 100°C, 2) 100°C, 3) 100°C

110 110 ARTISTS CARSACT COPYRIGT 1007 ACS on 17N
T1 Method of preparing substituted benzene derivatives (substituted with a chlorine atom) in the presence of a catalyst



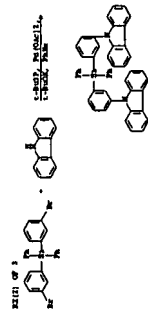
110 110 ARTISTS CARSACT COPYRIGT 1007 ACS on 17N
T1 Synthesis of substituted benzene derivatives (substituted with a chlorine atom) from palladium-catalyzed
reactions of arynes



NOTE: Microwave irradiation reaction, 100°C

10509668.tif

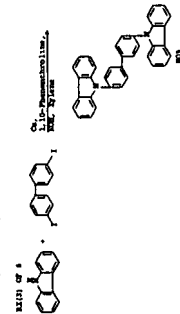
110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM
TI Optical electrochromic device



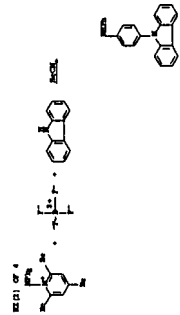
110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM
TI Indole(1,3-b)carbazole-Base Thin-Film Transistors with High Mobility and Stability
* STRUCTURE DIAGRAM TWO LAYER FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *
NOTE: 1) representative; 2) known composition

10509668.tif

110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM
TI Process for preparation of triarylimine materials for organic light-emitting diodes



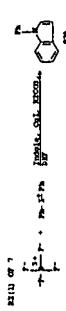
110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM
TI Synthesis of triarylimine materials for organic light-emitting diodes



NOTE: room light, photochemical

110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM

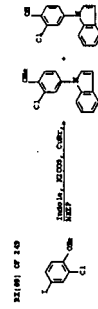
TI Synthesis of a polymer for use as a light-emitting diode for the preparation of P-arylimine materials for organic light-emitting diodes



NOTE: optimized on catalyst

110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM

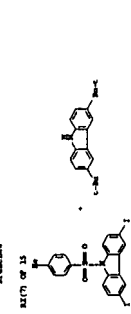
TI A novel class of "alkenyl" copolymers: 1-aryl-2-(alkenyl)alkenyl copolymers



NOTE: thermal

110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM

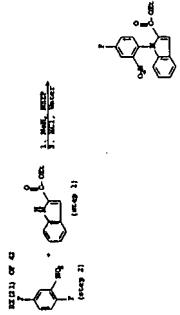
TI Reduction of benzene containing carbonyl-Base-Chromophore



RE(1) OF 1

110 113 ARTISTS CARSACT COPYRIGHT 1007 ACS on STM

TI Two step synthesis of substituted indole(1,2-b)carbazole-4-one




NOTE: regioselective


L16 112 ANSWERS CASREACT COPYRIGHT 2007 ACS on STM

TI Novel, selective indole-based ECE inhibitors: Lead optimization via solid-phase and classical synthesis

2242 CHOI ET AL.



(step 1)



(step 2)

1. 1-butoxy, 15-Crown-6
2. PdH₂, 127
3. Acetic acid, 20°C
4. 1,2,3,4-tetrahydro-2H-pyran, 127
5. 1,2,3,4-tetrahydro-2H-pyran, 127
6. 1,2,3,4-tetrahydro-2H-pyran, 127
7. 1,2,3,4-tetrahydro-2H-pyran, 127
8. 1,2,3,4-tetrahydro-2H-pyran, 127

TI Optical limiting in the visible range; molecular engineering around $\text{M}_2\text{N}_4\text{-bis[4-methoxyphenyl]-N,N'-diphenyl-4,4'-diaminobiphenyl}$

NOTE: Personal, Villanova education

Ti Aromatic nucleophilic substitution, halosulfonate chromophore, tricarbonyl complexes, N-arylation of indoles

110 132 ARTICLES CASEZACT COPYRIGHT 2007 ACS on STN

NY 609 40

TI Characterization of a new class of selective monoterpenoid progesterone receptor agonists

EX(58) OF 64 - 2 STEPS

1-PYRIDINE, EtOH
2,1. Isole, Cat CO₂,
T.T., 0°C, 1 hr, EtOAc, EtOH
2,3. C₂

NOTE: 1) reagent selective; 2) combinatorial screening used if necessary second step to diagnostic fragment in ethanol

110 121 ANSWERS CASREACT COPYRIGHT 2007 ACS on STM

YIELD OF 46 - 2 STEPS

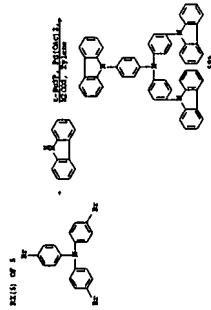
1. 1. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.10. Permethrin base,
1.2. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.2. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.2. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.3. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.3. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.3. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.4. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.4. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.4. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.5. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.5. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.5. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.6. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.6. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.6. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.7. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.7. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.7. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.8. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.8. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.8. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.9. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.9. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.9. ClC1=CC=C(C=C1)C2=CC=CC=C2
1.10. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.10. ClC1=CC=C(C=C1)C2=CC=CC=C2 1.10. ClC1=CC=C(C=C1)C2=CC=CC=C2

NOTE: 1) reacting in benzene combination; 2) reagent active.

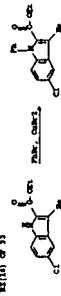
Page 46

10509668.trn

110 133 ARSENIC CASREACT CONFIDENT NOT ACN ON STM
TI ARSENIC CASREACT CONFIDENT NOT ACN ON STM
RE(14) OF 33



110 133 ARSENIC CASREACT CONFIDENT NOT ACN ON STM
TI ARSENIC CASREACT CONFIDENT NOT ACN ON STM
RE(14) OF 33



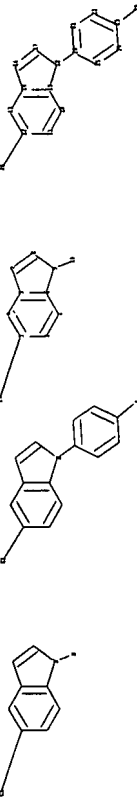
ALL ARSENIC CASREACT CONFIDENT NOT ACN ON STM

10509668.trn

=>Testing the current file..... screen

ENTER SCREEN EXPRESSION OR (END):end

=> Uploading C:\Program Files\Stnexp\Queries\10509668specific.str



ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 20 21 22 23 24

25

ring/chain nodes :

19 27 28 29

chain bonds :

3-27 9-19 12-28 18-20 23-29

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-15 11-12 12-13 13-14

14-15 14-16 15-18 16-17 17-18 20-21 20-25 21-22 22-23 23-24 24-25

exact/norm bonds :

5-7 6-9 7-8 8-9 14-16 15-18 16-17 17-18 18-20

exact bonds :

3-27 9-19 12-28 23-29

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 10-11 10-15 11-12 12-13 13-14 14-15 20-21

GI:H,X

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS

20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 27:CLASS 28:CLASS 29:CLASS

fragments assigned product role:

containing 10

fragments assigned reactant/reagent role:

containing 1

reaction site bonds:

9-19:CC 18-20:CC

10509668.trn

node mappings:

8:17	7:16	3:12	4:13	9:18
------	------	------	------	------

L11 STRUCTURE UPLOADED

=> que L11

L12 QUE L11

=> S 112

SAMPLE SEARCH INITIATED 09:21:18 FILE 'CASREACT'
SCREENING COMPLETE - 18 REACTIONS TO VERIFY FROM

SAMPLE SEARCH INITIATED 092110Z FILE 0406001
SCREENING COMPLETE - 18 REACTIONS TO VERIFY FROM
SCREENING COMPLETE - 18 REACTIONS TO VERIFY FROM

7 DOCUMENTS

100.0% DONE 18 VERIFIED 1 HIT RXNS

1 DOCS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE +-COMPLETE+-

BATCH	→ COMPLETE →
1	100%
2	100%
3	100%
4	100%
5	100%
6	100%
7	100%
8	100%
9	100%
10	100%
11	100%
12	100%
13	100%
14	100%
15	100%
16	100%
17	100%
18	100%
19	100%
20	100%
21	100%
22	100%
23	100%
24	100%
25	100%
26	100%
27	100%
28	100%
29	100%
30	100%
31	100%
32	100%
33	100%
34	100%
35	100%
36	100%
37	100%
38	100%
39	100%
40	100%
41	100%
42	100%
43	100%
44	100%
45	100%
46	100%
47	100%
48	100%
49	100%
50	100%
51	100%
52	100%
53	100%
54	100%
55	100%
56	100%
57	100%
58	100%
59	100%
60	100%
61	100%
62	100%
63	100%
64	100%
65	100%
66	100%
67	100%
68	100%
69	100%
70	100%
71	100%
72	100%
73	100%
74	100%
75	100%
76	100%
77	100%
78	100%
79	100%
80	100%
81	100%
82	100%
83	100%
84	100%
85	100%
86	100%
87	100%
88	100%
89	100%
90	100%
91	100%
92	100%
93	100%
94	100%
95	100%
96	100%
97	100%
98	100%
99	100%
100	100%

PROJECTED VERIFICATIONS:	106 TO	614
--------------------------	--------	-----

PROJECTED ANSWERS: 1 TO 79

L13 1 SEA SSS SAM L11 (1 REACTIONS)

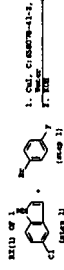
=> d scan

10509668.trn

113 1 ANSWERS CASEFACT COPYRIGHT 2007 ACS on STM

VI Copper-catalyzed-arylation of nucleophiles and its applications, e.g., studies on

TI Copper-Indoles



10509668.trn

=> s 112 full

FULL SEARCH INITIATED 09:21:31 FILE 'CASREACT'

SCREENING COMPLETE - 634 REACTIONS TO VERIFY FROM

100.0% DONE 634 VERIFIED 2 HIT RXNS

SEARCH TIME: 00.00.01

L14 2 SEA SSS FUL L11 (2 REACTIONS)

=> d scan

155 DOCUMENTS

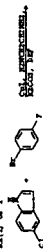
2 DOCS

10509668.trn

L14 3 ARTICLES CASREACT CONFIDENTIAL ACT ON STM

TI Section for assessment of availability

RE(1) OF 1



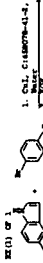
NOTE: OPTIMIZATION STUDY

NEW DATA MORE ARTICLES DO YOU WISH TO SCRAP (1) (1)

L14 3 ARTICLES CASREACT CONFIDENTIAL ACT ON STM

TI Section for assessment of availability

RE(1) OF 1



ALL ARTICLES HAVE BEEN SCANNED

10509668.trn

=> file caplus
FILE 'CAPLUS' ENTERED AT 09:21:51 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 25 Sep 2007 VOL 147 ISS 14
FILE LAST UPDATED: 24 Sep 2007 (20070924/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> file casreact
FILE 'CASREACT' ENTERED AT 09:21:58 ON 25 SEP 2007
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE CONTENT:1840 - 22 Sep 2007 VOL 147 ISS 14

New CAS Information Use Policies, enter HELP USAGETERMS for details.

+ CASREACT now has more than 12 million reactions +

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich. .

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 09:10:56 ON 25 SEP 2007)

10509668.trn

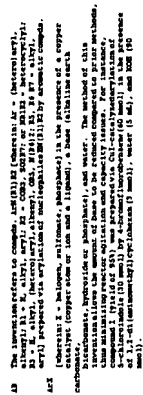
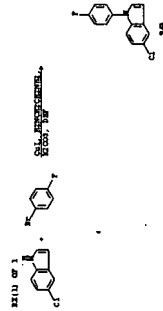
FILE 'CASREACT' ENTERED AT 09:11:18 ON 25 SEP 2007
L1 SCREEN 1929
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 50 S L1
L5 8 S L3

FILE 'STNGUIDE' ENTERED AT 09:12:30 ON 25 SEP 2007
L6 SCREEN 1976
L7 STRUCTURE UPLOADED
L8 QUE L7 AND L6
L9 4 S L8
L10 132 S L8 FULL

FILE 'STNGUIDE' ENTERED AT 09:15:49 ON 25 SEP 2007
L11
L12 STRUCTURE UPLOADED
L13 QUE L11
L14 1 S L12
2 S L12 FULL

FILE 'CAPLUS' ENTERED AT 09:21:51 ON 25 SEP 2007

FILE 'CASREACT' ENTERED AT 09:21:58 ON 25 SEP 2007
=> d l14 cbib abs ferd

[illegible][illegible]

NOTE: OPTIMIZATION STUDY
CON: STAGE (1) ROOM TEMPERATURE -> 40 deg C; 13 hours, 40 deg C;
45 minutes, 40 deg C -> 135 deg C; 5 hours, 130 - 135 deg C

=> log hold
COST IN U.S. DOLLARS
FULL ESTIMATED COST
DISCOUNT AMOUNTS (FOR
CA SUBSCRIBER PRICE

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:23:32 ON 25 SEP 2007

Page 58

10509668.trn

114 UNITED STATES CUSTOMS SERVICE 100-45-574
140-11113 Copper-nickel-beryllium and its application
to, e.g., lubricants. Ewins, Frederick (Ewins Plastics Solutions Inc., U.S.).
U.S. Pat. 3,400,007 (1968) 12 p. 12 Cl. 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1

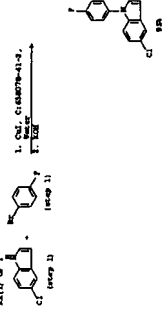
5

[illegible]

10509668.trn

=> d 114 cbib abs fcrd 1-2

L14 ANSWER 1 OF 2 CASUALTY COMPENSATION ACT 1979 (Cont.)



COM: STAGE (1) ROOM TEMPERATURE; 5 MINUTE, ROOM TEMPERATURE